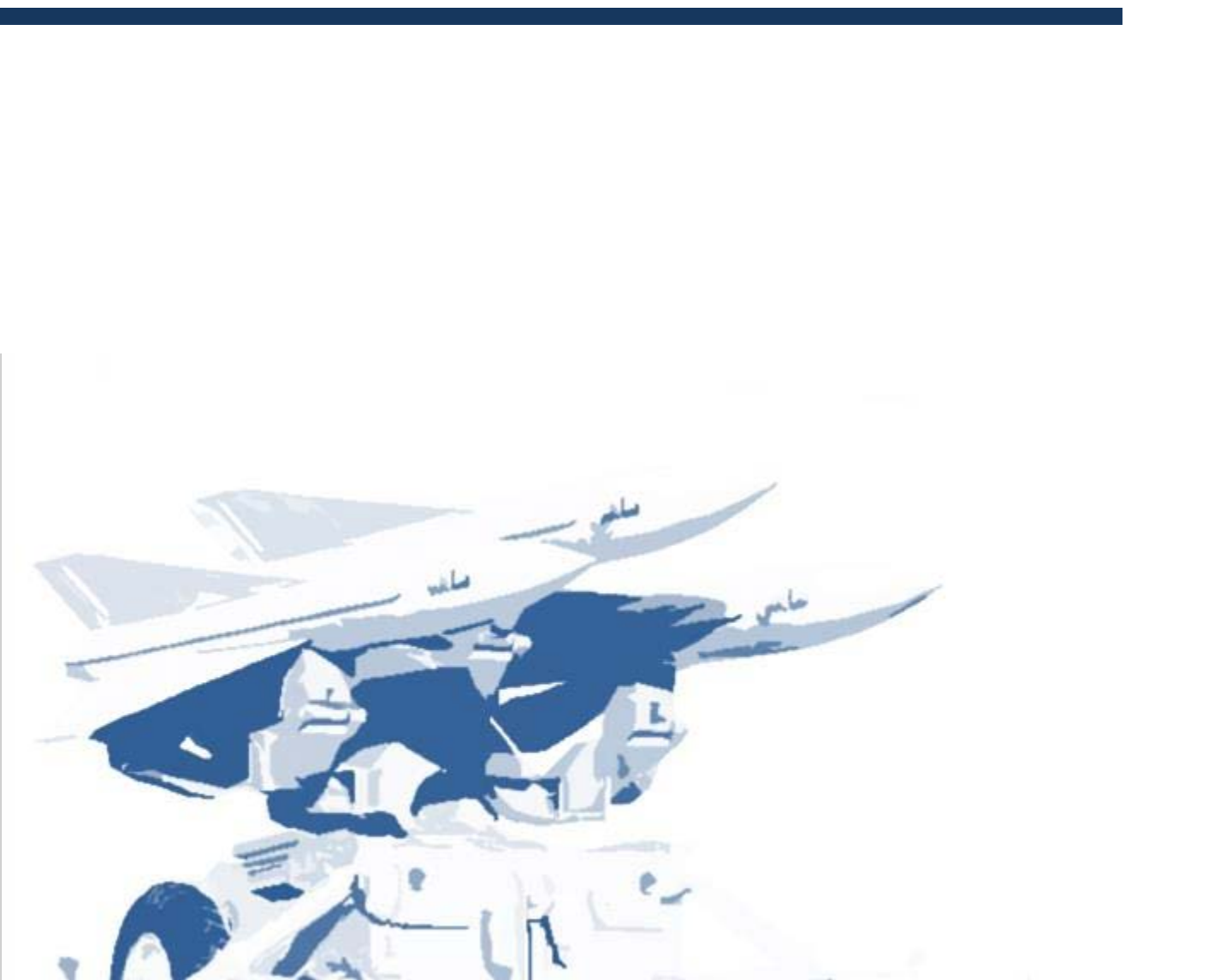


LAND-BASED AIR DEFENSE HOLDINGS & NEW REQUIREMENTS

2015



CONTENTS

SUMMARY	2
COUNTRY-BY-COUNTRY ANALYSIS	3
COUNTRY-BY-COUNTRY HOLDINGS	
EUROPE	12
SUB-SAHARAN AFRICA	15
LATIN AMERICA	17
MIDDLE EAST & NORTH AFRICA	19
ASIA-PACIFIC	22
RUSSIA & CIS	24
NORTH AMERICA	25

SUMMARY

Air and Missile Defense programs and requirements continue to evolve at a rapid pace. The threats pose by Russia in Europe and North Korea in the Far East have prompted increased BMD initiatives in these regions. At the same time, the market for all sectors of the Air Defense Systems market remains buoyant with over 30 countries having new procurement or upgrade programs under way. The value of the Air and Missile Defense market is estimated to be over \$30 Billion in the next 10 years.

An Avenger fires an FIM-92D Stinger Missile at an Outlaw aerial target Saturday, June 7th during a Table X Live Fire Exercise (LFX).





COUNTRY-BY-COUNTRY ANALYSIS

EUROPE

Finland

- Finland plans to order Stinger MANPADS for delivery from 2014-2017.

Germany

- Prospect for Evolved Patriot.
- IRIS-T SL is planned for the German Armed Forces.

Hungary

- The Mistral short-range surface-to-air missile systems of the Hungarian Defense Force (HDF) are to be upgraded by MBDA.

Poland

- The Wisla (Visula) medium-range air and missile defense requirement has been released to tender. Raytheon (Patriot) and Eurosam (SAMP/T) have been invited to tender. Selection is planned in 2015, with 6 batteries to be delivered from 2017-2022.
- The first mid-range air defense (MRAD) batteries should arrive by 2018 and will be complemented by two lower tier systems, all linked together in what has been called The Shield of Poland.

Romania

- Romania is looking to upgrade its HAWK batteries.

Russia

- The Verba MANPADS is being delivered to the Russian Airborne Forces.
- 6 PANTSIR-S short-range air defense systems have been delivered to the Russian Air Defense Forces for defense of Moscow.
- The S-500 is under development, for service entry in 2018.



EUROPE (CONT)

Spain

- 2 surplus Patriot Batteries are being procured from Germany (5 Launchers each – PAC-2+).

Turkey

- The Chinese HQ-9 (FD-2000) was selected for the T-LORAMIDS requirement in September 2013 to replace the NIKE HERCULES.
- However, talks with CPMIEC, under increasing pressure from Turkey's western allies that a Chinese-made system could not be made interoperable with NATO assets, have staggered since then.
- In mid-2014, Turkey opened parallel talks with the European consortium Eurosam, maker of the Aster-30. A consortium of Raytheon and Lockheed Martin, maker of the Patriot system, came third after Eurosam.
- The Turkish government asked Eurosam and Raytheon/Lockheed Martin to agree to a sixth extension of contract negotiations. Since September 2013, Turkey has extended the deadline for these two companies to renew their proposals five times. The latest deadline was Dec. 31.

U.K.

- MBDA UK has been awarded a £36 million contract to explore what capabilities the Future .
- Local Area Air Defense System (FLAADS) can offer the U.K. Following the assessment phase, a decision on whether to buy FLAADS as a replacement for Rapier is expected to be made next year. At the heart of the FLAADS system is the Common Anti-Air Modular Missile (CAMM).



MIDDLE EAST

Bahrain

- Patriot is planned for procurement.

Iraq

- Pantsyr S1 mobile short-range air defense systems and Igla-1 (SA-24) MANPADS have been supplied by Russia.

Israel

- The Iron Beam High Energy Laser (HEL) was unveiled at the Singapore Air Show in February. It is designed to destroy rockets, mortars and UAVs.
- A 3rd Battery of Arrow 2s is under construction. The Arrow 3 is under development for deployment from 2016. David's Sling is to be deployed from 2015. 6 Batteries of Iron Dome interceptors are planned. 10-15 Batteries of an extended-range version are also planned.

Kuwait

- A contract has been signed for 2 more Patriot fire units (to add to the 5 PAC-2 fire units, each with 5 launchers, already in-service). Delivery is scheduled by the end of April 2018.

Oman

- Oman has signed a contract to procure NASAMS air defense systems.



MIDDLE EAST (CONT)

Qatar

- Raytheon has been awarded an undefinitised contract (UCA) for creation of an air and missile defense operation center (ADOC) for Qatar.
- Qatar's request for 12 THAAD (150 Missiles) and 11 Patriot PAC-3 missile systems (246 GEM-T Missiles) was approved by the U.S. DSCA in November 2012.

Saudi Arabia

- The upgrade to the PAC-2 Patriot air defense systems to allow them to fire PAC-3 missiles, has been approved by the U.S. Government. 202 PAC-3 missiles and 36 launcher modification kits are to be supplied.

Syria

- Russia will deliver S-300 long-range air defense systems to Syria.

UAE

- The UAE is interested in upgrading its Mistral short-range air defense systems.
- 2 THAAD Fire Units (9 Launchers) and 9 Patriot PAC-3 Fire Units (37 Launchers) are to be procured.



ASIA-PACIFIC

Australia

- Australia plans to include a replacement for its Saab RBS-70 very-short-range air defense missile system in its next Defense Capability Plan. The Australian government will give first pass approval in fiscal year 2016-2017. Acquisition is estimated to cost between AUS \$500 million (US \$469 million) and AUS \$1 billion. Government approval for acquisition will be sought in fiscal year 2017-2018. Army Initial Operational Capability (IOC) is planned for fiscal year 2020 to 2021.

China

- The QW-19 MANPADS was unveiled by the China Aerospace Corporation (CASIC) at Airshow China in 2014. The system is still under development.

India

- Medium Range and Long-Range Surface-to-Air Missiles are being developed by the DRDO and BET, in collaboration.
- 6 more AKASH Squadrons are to be delivered in 2015.
- A new Medium Range SAM being is developed with Israel, to replace the SA-3B (13 Squadrons required).
- A new Short-Range SAM (MAITRI) is being developed with France.

Indonesia

- Starstreak is on order (5 Batteries on Mobile Launchers).

Japan

- Japan plans to improve its ground-based missile defense capabilities and has shown an interest in the Aegis Ashore system.



ASIA-PACIFIC (CONT)

Malaysia

The Malaysian Army has requirements for MANPADS, short-range and medium-range SAMs. The Chinese LY-80 System is being offered to Malaysia. Starstreak has also been offered.

Myanmar

The United Wa State Army (UWSA) insurgents have acquired the FN-6 Chinese MANPADS.

Philippines

A Ground-Based Air Defense Group is planned by the Army.

Singapore

The SAMP/T System (Aster 30 Missile) is on order to replace the I-Hawk.

South Korea

The Korean Air and Missile Defense (KAMD) System is due to be completed by 2015 and will include upgraded PAC-2 Patriots. PAC-3 missiles are planned for procurement after 2015.

Production of PEGASUS (CHUN MA) Mobile SAM is under way.

Production of BI HO Twin 35mm SPAAG is under way

CHEONGUNG SAM is to replace Hawk from 2015-2019 (150-180 Reportedly)

Taiwan

The TIEN KUNG 3 is under development (ABM- capable).

Thailand

Starstreak is on order (number unknown).



NORTH AMERICA

U.S.A.

- \$1 Billion has been requested in the FY 2015 budget for the Ground-Based Midcourse Defense (GMD) program.
- \$384.6 million has been requested in the FY2015 budget for PAC-3 Patriot Missile Segment Enhancements (MSE) for the U.S. Army. Patriots are being upgraded to PAC-3 configuration.
- The U.S. currently has 30 ballistic missile interceptors deployed in Alaska, and the country plans to position another 14 interceptors in the region soon.
- The U.S. DoD intends to declare the second and third phases of the European Phased Adaptive Approach (EPAA) 'technically capable' with the planned fielding of next-generation interceptors at bases in Romania in 2015 and Poland in 2018. SM-3 Block-1A/IIA missiles will be deployed as interceptors.



LATIN AMERICA

Brazil

- The Army will order the RBS-70 MANPADS from Sweden. 16 launcher units are planned for procurement. 2 Batteries of Igla S also planned.
- 3 Batteries of PANTSIR-S1 are planned for airfield protection by Air Force.

Peru

- Contract signed by Air Force for 2 batteries of SPADA 2000s with Aspide Missiles. Each battery has 2 x 6-cell launchers

Venezuela

- A new air defense brigade (the 79th) has been established for the air defense of Tachira, on the border with Colombia. Venezuela was the first recipient of the S-300VM long-range surface-to-air missile system from Russia.



AFRICA

Egypt

- Egypt has acquired the S-300VM long-range, Buk medium-range and Tor short-range surface-to-air missile systems from Russia.

Tanzania

- Tanzania has received the FB-6A mobile SHORADS system.

COUNTRY-BY-COUNTRY AIR DEFENCE HOLDINGS

EUROPE

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Albania	HN-5 MANPADS (Army)	
Austria	24 Mistral (+12 stored) (Air Force) AA: 24 M-65 35mm (Air Force)	
Belgium	45 Mistral (Army)	
Bosnia and Herzegovina	1 SA-13; 6 SA-9; 20 SA-6 AA: 652 Towed, inc. 479 20mm; 30 23mm; 96 30mm; 47 40mm; 3 BOV-2 20mm SP; 76 BOV-2 30mm SP; 7 ZSU-57 57mm	
Bulgaria	24 SA-8 (Army) S-300; S-75 DVINA; S-125 PECHORA; S-200; 2K12 KUB (Air Force)	
Croatia	9 S-10; 80 Igla; 539 S-2M (all stored) (Army) AA: 39 20mm single; 57 20mm triple mounts (Army)	
Cyprus	An S-300 PMU-1 (SA-10) Air Defense Battery (12 Mobile Launchers) is deployed on Crete under Greek Control	
Czech Republic	SA-2; SA-6; RBS-70 (Air Force)	
Estonia	Mistral (Army)	
Finland	AA: 800 ITK 61 23mm; ITK 95 23mm; ITK 88 35mm Towed; ITPSV 90 Twin 35mm SP (Army)	An unspecified number of Stinger MANPADS are being acquired from 2014-2017. 8 ITO 12 (NASAMS II FIN) MSAMs are on order to replace BUK M1.
France	336 Mistral (Army) AA: 525 53T2 20mm (Army) 10 Crotale/Crotale NG Batteries; 4 I-Hawk Batteries; 20 Roland/Carol; 69 Roland II; 8 MAMBA (SAMP-T) Batteries (Air Force)	Deliveries of SAMP-T under way.
Germany	14 Patriot Systems (12 Squadrons) (Air Force) AA: 2 MANTIS Systems (Air Force)	
Greece	42 I-Hawk PIP IIIs; 21 TOR-1M; 38 OSA-AK (SA-8); 479 Stinger (Army) AA: 204 20mm; 523 ZU-23-2 23mm (Army)	
Hungary	6 SA-6 (24 Launchers); 45 Atlas Twin Launchers with Mistral 2 (Air Force)	

EUROPE (CONT)

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Ireland	RBS-70 (Army) AA: 26 40mm L/70 (Army)	
Italy	5 SAMP-T Batteries (Aster 30); 16 Aspide Launchers; Stinger MANPADS (Army) Stinger MANPADS (Marines) 4 SPADA Batteries (Air Force)	
Latvia	RBS-70 (Air Force)	
Lithuania	RBS-70; Stinger (Air Force) AA: M-48 (Air Force)	
Macedonia	8 SA-13; 5 SA-16 (Army) AA: 36 20-40mm (Army)	3-4 Low Altitude Air Defense Missile Batteries to be procured by 2020 for Air Force Brigade.
Malta	AA: 50 ZPU-4 14.5mm (Army)	
Netherlands	2 Air Defense Batteries (18 Vehicle-Mounted Stingers each); 6 NASAMS II Launchers (Army) Patriot (Air Force)	
Norway	2 NASAMS Batteries (each with 3 Fire Units and 9 6-Cell Launchers) (Air Force)	
Poland	20 2K12 KUB; 54 SA-8 OSA-AK; 64 9K32 Strela-2; 396 Grom (Army) AA: 18 ZSU-23-4 SPAAG; 12 ZSU-23.4 Towed; 244 ZU-23-2; 72 ZUR-23-2 KG/PG (Army) 17 SA-3M GOA Batteries (51 Launchers); 1 SA-5 Battery (6 Launchers) (Air Force)	Ballistic Missile Defense Site with SM-3 IIA Missiles is to be deployed by 2018 in agreement with the U.S.A.
Portugal	29 Chaparral; 20 Stinger MANPADS (Army) AA: 26 RH202 20mm Twin (Army)	
Romania	AA: 24 35mm Twin; 18 37mm; 36 Gepard SPAAG (Army) 7 SA-2; 4 Hawk XXI (Air Force) 96 S-60 57mm (Air Force)	
Serbia	76 S-1; 700 S-2M (Army) 6 NEVA; 27 2K12 KUB; 6 S-10; 120 S-2M; 90 SILO; 13 S-1 (Air Force) AA: 60 PAT L-70 (Air Force)	
Spain	8 Patriot Batteries; 36 I-Hawk PIP III; 16 Roland; 8 NASAMS; 6 Aspide; 105 Mistral (Army) AA: 48 35mm Twin (Army) 2 Mistral/Aspide Groups (Air Force)	

EUROPE (CONT)

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Sweden	Hawk; I-Hawk; RBS-70 (1 Battalion); RBS-23 BAMSE (Army) AA: 25 CV90 AA (Army)	IRIS-T on order (Numbers unknown)(Army)
Switzerland	96 Stinger MANPADS (Army) 54 Rapier (4 Batteries) (Air Force)	
Turkey	Stinger MANPADS; 148 PMS (Pedestal Mounted Stinger); 70 ATILGAN (on M113 Chassis); 78 ZIPKIN (on Land Rover 130 Chassis) (Army) AA: 175 Twin 20mm and Twin 35mm; 1,300 12.7mm; Some M42 40mm SP (Army) 72 NIKE HERCULES (8 Squadrons); 86 Rapier (21 Batteries)	
UK	24 Rapier C; 147 Stormer HVM/Starstreak (inc. 63 in Reserve);	



SUB-SAHARAN AFRICA

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Angola	SA-7; SA-14 (Army)	
Botswana	Javelin; SA-7 (Army)	
Burkina Faso	SA-7 (Defense Force)	
Cameroon	AA: 18 Type 63 37mm; 18 35mm twin; 16Type 58 14.5mm (Army)	
Chad	SA-6; Stinger; SA-7 (Army)	
Congo	AA: 16 14.5mm; 40 37mm; 8 57mm (Army)	
DRC	AA: ZPU-4 14.5mm; 40 M1939/Type 63 37mm; L/60 40mm (Army)	
Cote D'Ivoire	AA: 12 Twin 20mm; 5 40mm; 14 20mm (Army)	
Eritrea	SA-3; SA-6 (Doubtful Serviceability); SA-7; SA-18 (Army)	
Ethiopia	SA-2; SA-3; SA-7; SA-9; SA-18 (Army) AA: ZU-23; 37mm; ZU-57 (Army)	
Gabon	Mistral (Army) AA: 10 37mm; 2 Bofors 40mm; 24 ZU-23-2 23mm (Army)	
Guinea	SA-7; SA-8 (Army) AA: 8 37mm; 12 57mm (Army)	
Guinea Bissau	SA-7 (Army) AA: 16 ZSU-23-2 23mm; S-60 57mm (Army)	
Kenya	Mistral/Aspic; BUK (Army) AA: 50 TCM-20 20mm (Army)	
Madagascar	AA: 26 ZPU-4 14.5mm (Army)	
Malawi	Blowpipe (Army) AA: 46 ZPU-14 14.5mm (Army)	
Mauritania	SA-7 (Army) AA: 14.5mm; 23mm; 37mm (Army)	

SUB-SAHARAN AFRICA (CONT)

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Mozambique	30 SA-3 (Doubtful Serviceability); SA-7 (Army) AA: 350 20mm; ZU-23 23mm; 37mm; 57mm; ZSU-23-4 SP (Army)	
Namibia	SA-7 (Army) AA: ZPU-4 14.5mm; 12 ZU-23 23mm (Army)	
Niger	AA: 36 20mm (Army)	
Nigeria	16 Roland; 40 Blowpipe (Army) AA: 20mm; 40mm; ZSU-23-4 SP; ZU-23 23mm (Army)	
Senegal	AA: 21 20mm (Army)	
Sierra Leone	SA-7 (Army)	
South Africa	54 Cactus (Crotale) (Army) AA: 35 Mk.4/5 35mm Towed; 36 23mm (Army)	
South Sudan	-	SAMs are being procured
Sudan	20 SA-2; SA-7; Redeye (Army) AA: 12 M-3 20mm SPAAGs; 60 Bofors 40mm; 80 37mm; 24 Vulcan (Army)	
Tanzania	SA-3; SA-6; SA-7 (Army- Doubtful Serviceability) AA: 280 ZPU-2 and ZPU-4 14.5mm; 40 ZU-23 23mm; 120 Type 55 37mm (Army)	Tanzania has received the FB-6A mobile SHORADS system
Togo	AA: 38 ZPU-14 14.5mm; 5 M-38/39 37mm (Army)	
Uganda	SA-7 (Army) AA: ZSU-23 23mm; M1939 37mm (Army)	
Zambia	SA-7 (Army) AA: 50 M55 20mm; 40 M1939 37mm; 55 S60 57mm; 16 KS-12 85mm (Army)	
Zimbabwe	SA-7 (Army) AA: ZPU-1/2/4 14.5mm; ZU-23 23mm; M1939 37mm (Army)	

LATIN AMERICA

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Argentina	AA: 21 30mm; 8 35mm Twin; 6 40mm/L70; 220 GAD-BO1 20mm (Army) 3 RBS-70 Batteries (Army) 6 RBS-70 (Marines) AA: 4 40mm L70 Marines) 3 Roland (Air Force) AA: 86 20mm (10 Batteries); 2 35mm (1 Battery) (Air Force)	
Bolivia	AA: 37mm Twin (Army)	
Brazil	13 FILA AD Systems; Mistral; Igla; Igla S (Army) AA: 8 (+26) Gepard 1A2 SPAAG; 240 40mm; 35mm; 57mm; 90mm (Army) Mistral (Marines)	Army will order the RBS-70 MANPADS from Sweden. 16 launcher units are planned for procurement. 2 Batteries of Igla S also planned. Gepard deliveries to complete in 2015. 3 Batteries of PANTSIR-S1 planned for airfield protection by Air Force.
Chile	12 Mistral (Army) AA: 3 Groups (Air Force) Blowpipe, Mistral (Air Force)	Include 12 Mygale Systems (3 x 4-cell Mistral launchers each)
Colombia	AA: 30 M1A1 40mm (stored); 29 Bofors 40mm/L70 (Army)	
Cuba	SA-6; SA-7; SA-9; SA-13; SA-14 (Army) AA: 14.5mm ZPUs; 400 23mm ZU-23; 36 ZSU-23-4 Shilka SP; 100 30mm M53; 300 37mm M1939; 200 57mm M60 Towed; 25 ZSU-57-2 SP; 100 85mm HS-12; 75 100mm KS-19 (Army)	
Dominican Republic	AA: 20 40/60mm (Army)	
Ecuador	240 Blowpipe; Mistral (Truck-mounted); HN-5; Strela-2; Igla (Army) SA-8 (OSA-AKM) (Air Force) AA: 12 35mm Twin (Air Force)	
El Salvador	AA: 31 M55 20mm; 4 TCM-20 20mm SP (Army)	
Guatemala	AA: 12 40mm; 20 20mm (Army)	

LATIN AMERICA (cont)

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Guyana	18 SA-7 (Army)	
Honduras	AA: 80 20mm (Some M55) (Army)	
Nicaragua	AA: 200 (approx.) 14.5mm; 20mm; 23mm; 56 37mm; 40mm; 24 57mm (Army) AA: 18 ZU-23 (1 Group) (Air Force)	
Paraguay	AA: 20 20mm; 10 M1A1 40mm (Army)	
Peru	400 SA-7; 120 SA-14; 200+ SA-16; Some TOR (Army) AA: 30 ZU-23-2-4 23mm (Army)	TORs may be operated by Air Force or both Army and Air Force Contract signed for 2 batteries of SPADA 2000s with Aspide Missiles for the Air Force. Each battery has 2 x 6-cell launchers
Uruguay	AA: 8 L60 40mm; 6 M-167 Vulcan 20mm; 9 TCM-20 20mm (Army)	
Venezuela	RBS-70; Mistral; 1,800 Igla-S (Army) AA: ZSU-23/ZOM1 Twin 23mm Towed (Army) BUK-M2E (Marines) S-300MV (4 Batteries); Pechora 2M (Air Force) AA: Breda/Bofors 40/L70mm Twin; TCM-20 Mk.5 20mm (Air Force)	
Guyana	18 SA-7 (Army)	
Honduras	AA: 80 20mm (Some M55) (Army)	
Nicaragua	AA: 200 (approx.) 14.5mm; 20mm; 23mm; 56 37mm; 40mm; 24 57mm (Army) AA: 18 ZU-23 (1 Group) (Air Force)	



MIDDLE EAST & NORTH AFRICA

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Algeria	<p>180 SA-7; 30 SA-3 Launchers; 40 SA-6; 24 SA-8; 46 SA-9; 32 SA-13; 24 2S6M Tunguska; 38 Pantsir gun/missile SP Systems (Army)</p> <p>AA: 100 14.5mm ZPU-2/4; 60 ZU-23 23mm; 210 ZSU-23-4 23mm Shilka SP; 100mm; 37mm M1939; 70 57mm S60; 24 85mm (Army)</p> <p>S300 PMU2 (8 Battalions); SA-6 (Air Force)</p> <p>AA: 38 85mm; 54 100mm KS19 (Air Force)</p>	
Bahrain	160 RBS-70; 400 Stinger; 8 I-Hawk Batteries (Army)	Patriot planned for procurement
Egypt	<p>AL SAQR (SA-7), 75 Avenger Systems (Army)</p> <p>AA: 350 ZSU-23-4; ZSU-57-2 SP; 66 M167A2 Vulcan (Army)</p> <p>320 SA-2; 180 SA-3; 76 SA-6; 12 I-Hawk PIP III Batteries (72 Systems); 12 Chaparral Batteries; 14 Crotale Batteries (36 Systems); 13 Skyguard/Amoun (Air Defense Forces)</p> <p>AA: 2,000 20mm; 23mm; 37mm; Twin 35mm; 57mm; 85mm; 100mm (Air Defense Forces)</p>	
Iran	<p>I-Hawk; SA-7; RBS-70; Stingers (A Few); Shahab Thaqeb; Misagh-1; Ra'ad; 29 TOR M-1 (Army)</p> <p>AA: 1,800 23mm; 35mm; 40mm; 57mm; 85mm Towed; ZSU-23-4; 100 ZSU-57-2 SP (Army)</p> <p>200 Rapier; Shahab Thaqeb; Sayyad; Sayyad 2; I-Hawk; Mersad (Air Force)</p>	
Iraq	40-50 PANTSIR S1 SP on order; 3 I-Hawk Batteries (216 Missiles) on order; 40 Avenger Systems (681 Stinger Missiles) on order – deliveries under way (Army)	

MIDDLE EAST & NORTH AFRICA (cont)

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Israel	<p>2 Batteries Arrow 2 (Strategic Forces)</p> <p>500 Stinger (Army)</p> <p>AA: 24 Vulcan/Chaparral 20mm Missile/Gun; 30mm; 40mm (Army)</p> <p>6 I-Hawk Batteries; 4 Patriot PAC-2 Batteries (Air Force)</p>	<p>3rd Battery of Arrow 2 under construction. Arrow 3 under development for deployment from 2016. David Sling to be deployed from 2015. 6 Batteries of Iron Dome interceptors planned. 10-15 Batteries of extended-range version planned.</p>
Jordan	<p>270 Redeye; 14 I-Hawk Batteries (532 Missiles); 16 SA-6; SA-8; SA-9; SA-13; SA-14; Starburst (Army)</p> <p>AA: 200 M-42 40mm SP; 100 Vulcan; 15 ZSU-23-4 Shilka SP (Army)</p>	<p>60 Cheetah (Gepard) Twin 35mm SPAAG have been purchased from Dutch surplus.</p>
Kuwait	<p>1 I-Hawk Battery; 10 SPADA 2000 Systems; 5 Patriot Fire Units; 50 Starburst (Air Force)</p>	<p>2 additional Patriot Fire Units on order. PAC-3 Missiles to be acquired.</p>
Lebanon	<p>AA: 131 20mm; 23mm; 30mm (Army)</p>	
Morocco	<p>SA-7; 10 Chaparral; Crotale; 12 Tunguska M-1 Gun/Missile Systems (Army)</p> <p>AA: 100 20mm; 42 Twin 20mm (VAB Chassis); 160 ZPU-23-2 23mm; 37mm; 57mm; 100mm; 40 M-163 Vulcan; Type 90 35mm Twin (Army)</p>	
Oman	<p>34 SA-7; 30 Javelin; Albi/Mistral; 18 Avengers (Army)</p> <p>AA: ZU-23-2; 10 GDF-005 35mm Twin (Army)</p> <p>VL MICA (Royal Guards)</p> <p>28 Rapier Fire Units (Air Force)</p>	<p>NASAMs on order to replace Rapier</p>
Qatar	<p>SA-7; Stinger; Starburst (Army)</p> <p>1 I-Hawk Battery; 6 Roland II; 1 Rapier Battery (18 Systems) (Air Force)</p>	<p>2 THAAD Fire Units (12 Launchers/150 Missiles to be procured. 11 Patriot PAC-3 Fire Units (44 Launchers/246 GEM-T and 768 PAC-3 Missiles) on order .</p>

MIDDLE EAST & NORTH AFRICA (cont)

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Saudi Arabia	<p>Stinger; 600 Mistral (Army)</p> <p>17 I-Hawk Batteries (120 Launchers); 151 Shahine I/ Shahine II Fire Units (being withdrawn); 11 Patriot Fire Units (Air Defense Force)</p> <p>AA: 156 35mm Twin Towed; 100 Vulcan (Towed); 18 AMX-30 30mm SP (Air Defense Force)</p>	
Syria	<p>SA-6; SA-7; SA-8; SA-9; SA-11; SA-13; SA-18 (Army)</p> <p>AA: 23mm; 37mm; 400 57mm; 85mm; 100mm; 300 ZSU-23-4; 10 ZSU-57-2 SP (Army)</p> <p>400 SA-2/3; 200 SA-9; 48 SA-5; 60 SA-8; 36 PANTSIR-S1E; 9K37 BUK-M2E (Numbers unknown) (Air Force)</p>	<p>Deliveries of S300 PMU-1 unconfirmed.</p>
Tunisia	<p>Chaparral; RBS-70 (Army)</p> <p>AA: 90 M55 20mm; 10 M-1939 Type 55 37mm (Army)</p>	
UAE	<p>I-Hawk (5 Batteries); Rapier; Crotale; RBS-70; SA-14; Javelin; 50 9K69 PANTSIR Gun/Missile; 78 Avenger Fire Units (780 Stinger Missiles) (Army)</p> <p>AA: Twin 35mm Skyguard (Air Force)</p>	<p>2 THAAD Fire Units (9 Launchers) and 9 Patriot PAC-3 Fire Units (37 Launchers) to be procured.</p>
Yemen	<p>62 SA-2; SA-6; SA-7 (Army)</p> <p>AA: 200+ ZU-23-2 23mm; 37mm; 57mm; 85mm Towed; 40+ ZSU-23-4; 72 Vulcan 20mm (Army)</p>	

ASIA PACIFIC

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Australia	18 Rapier BM1 Systems; 30 RBS-70 (Mk.3 BOLIDE Missiles (Army)	
Bangladesh	43 QW-2 MANPADS; HQ-7 (numbers unknown) (Army) AA: 114 Type 55/74 37mm; 34 Type 459 57mm (Army)	
Brunei	10 Rapier Systems; Mistral (Air Force)	
Cambodia	AA: 14.5mm; 23mm; 37mm; 57mm (Army) SA-4 (3 Sites) (Air Force) AA: 37mm; 57mm; 100mm (Air Force)	
China	30 TOR M1 (Army) AA: 10,000 Type 55 (37mm); Type 65 (37mm Twin); Type 59 (57mm); 85mm; Type 59 (100mm) (Army) HY-2 (SA-2); 8 S-300 PMU Regiments (39 Batteries); HQ-16 (Air Force)	
India	SA-6; SA-7; SA-8; SA-9; 50 SA-13; SA-18; AKASH (8 Batteries) (Army) AA: L-40/70; ZSU-23-4 SP; 36 TUNGUSKA SPAAG (Army) SA-3B (30 Fire Units); SA-8 (8 Batteries); 100 S-13; AKASH (4 Batteries); 18 SPYDER –MT (Air Force)	6 more AKASH Squadrons to be delivered in 2015. New Medium Range SAM being developed with Israel, to replace SA-3B (13 Squadrons Required). New Short-Range SAM (MAITRI) being developed with France.
Indonesia	TD-2000; RBS-70; Rapier (Army) AA: 20mm; 40mm; 57mm (Army)	Starstreak on order (5 Batteries on Mobile Launchers)
Japan	Type 81; 520 I-Hawk; CHU-SAM; 270 Stinger (Army) AA: 30 35mm Twin; 60+ Type 87 SPAAG (Total of 200 planned (Army) 24 PAC-2/PAC-3 Patriot Batteries; 36 Type 81; 396 Type 91 (Air Force) AA: Vulcan (Air Force)	
Korea (North)	800 SA-2; 30 SA-3; 24 SA-5; SA-7 (Army) AA: 8,000 23mm; 37mm; 57mm; 85mm; 100mm Towed; ZSU-23-4; ZSU-57-2 SP (Army) 250 SA-2; 30 SA-3; 54 SA-5 (Air Force)	

ASIA PACIFIC (CONT)

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Korea (South)	100 Javelin; 35 Mistral (2,400 Missiles); Igla; KP-SAM; SIN GUNG (Common Force Capability) AA: 40 40mm; 500+ Vulcan 20mm; 35mm Twin (Army) 18 Patriot PAC-3; Hawk; Mistral (Air Force)	Production of PEGASUS (CHUN MA) Mobile SAM under way. Production of BI HO Twin 35mm SPAAG under way CHEONGUNG SAM to replace Hawk from 2015-2019 (150-180 Reportedly)
Laos	SA-3; SA-7 (Army) AA: 37mm; 6 23mm Twin (Army)	
Malaysia	48 Javelin; 9 JERNAS; 12 Rapier; Starburst; Igla (Army) AA: 24 40/70mm; 70 12.7mm; 8 35mm Twin (Army) Starburst (Air Force)	
Mongolia	1 SA-2 Battalion	
Myanmar	HN-5A; SA-18 MANPADS (Army) AA: Type 80 57mm; 10 M1 40mm; Type 74 37mm Twin; TUNGUSKA Gun/Missile Systems (Army) SA-3; SA-6; TOR M1 (Air Force)	
Nepal	AA: 14.5mm; 37mm (Army)	
New Zealand	12 Mistral (Army)	
Pakistan	400 RBS-70; 6 CS-A1 (SA-2); 100 Stinger; ANZA Mk.I/II (Strela) (Army) AA: ZU-23; 30mm; 35mm; 37mm; 60 40mm; 57mm; 15 90mm; 3.7 inch (Army) 10 SPADA 2000 PLUS Batteries (Air Force)	Crotale being phased out.
Philippines	-	Ground-Based Air Defense Group planned by Army

RUSSIA & CIS

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Armenia	S-300; SA-2; SA-3; SA-4 (Air Force and Air Defense Forces) AA: 3 S-60; ZSU-23; ZSU-23-4 (Air Force and Air Defense Forces)	
Azerbaijan	SA-2; SA-3; SA-4; SA-5; S-300 FAVORIT (2 Batteries) (Air Force and Air Defense Forces)	
Belarus	S-300; TOR M2 (3 Batteries) (Army)	
Georgia	OSA-AKM; BUK-M1; TOR; SPYDER (Reportedly); STRELA; IGLA	
Kazakhstan	S-300 (1 Battery) (Air Force and Air Defense Forces)	
Kyrgyzstan	1 AA Regiment (Army)	
Russia	500 SA-4; 400 SA-6; 400 SA-8; 200 SA-9; 250 SA-11; 100 SA-12; 350 SA-13; 100 SA-15; SA-16; SA-18; SA-19 (Army) S-300; S-400 TRIUMF (7+ Regiments); PANTSIR-S (Aerospace Defense Forces)	S-500 under development, for service entry in 2018.
Turkmenistan	AA: 2 Regiments (Army)	
Ukraine	SA-5; SA-10; SA-11 (Air Force)	
Uzbekistan	SA-2; SA-3; SA-5 (1 Air Defense Brigade)	

NORTH AMERICA

COUNTRY	CURRENT AIR DEFENCE HOLDING	FUTURE PLANS
Canada	16 ADATS (on M113 Chassis) (Army)	
USA	National Missile Defense (NMD) System, with 20 Interceptor Missile Silos (14 more to be deployed by 2017 (Strategic Forces) 7 THAAD Batteries (3 Launchers each) being deployed; 15 Patriot Battalions (3 Fire Units each); Stinger MANPADS; 674 Pedestal-Mounted Stinger (on Hummers - ANG) (Army) 30,000 Stinger; 79 Avenger; 16 LAV-AD (Marines)	Patriots are being upgraded to PAC-3 configuration



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